

ARMED FORCES INSTITUTE OF PATHOLOGY
WASHINGTON, D.C. 20305

ADDRESS REPLY TO THE DIRECTOR
ATTN: MEDICINE - 10

RLP/frs

23 September 1965

(1)

Capt. John Ferrell
Pathology Division
U.S.A. Medical Unit
Fort Detrick, Maryland

Dear Captain Ferrell:

Under separate cover, you will receive microscopic slides for the conference of Wednesday, 6 October 1965. The histories are as follows:

- (66) 1171066 - Female white deer died suddenly after a long period of inactivity but she was mobile and eating.
- (67) 1171066 - Golden Mantled Ground Squirrel lesion on left leg of unknown duration.
- (68) 642300 - Eight-year-old spayed female dog presented with right heart failure and ascites. Treated for "heart condition" 2 months previously.

Sincerely,

Ronald L. Persing
RONALD L. PERSING
Major, USAF, VC

88 - Tuberculosis - axis deer

89 - Squamous cell carcinoma - squirrel

90 - Heartworm treatment - parasitic emboli with lungs
thrombus in pulmonary artery

1

Histories:

(2)

Conference of Wednesday 13 October 1965

(31) 1176733

Tissue from a Mockingbird.
Diagnosis ?

(32) MI - 10592

Two year old steer slaughtered in good condition. Owner reported injecting _____ seven days prior to slaughter. Yellow colored necrotic lesions on left hip and right shoulder region of 35-40 percent of lot. The specimen was received in a semi-frozen state. What simple practical test would you use to support your histopathologic findings on the gross specimen ?

(33) 210-65

Cynomolgus monkey (M.iris), one of a shipment of 10, was received from a commercial dealer and placed in quarantine. They had been captured two weeks prior to purchase in the Phillipines. All had a mild diarrhea but were otherwise healthy. This one became depressed, had a temperature of 102°F. and was treated for diarrhea. He was found dead the following morning. Necropsy revealed edema of the lungs and catarrhal enteritis.

Diagnosis ?

(91) Avian pox - one of most common viral diseases of wild birds

(92) Terramycin - TEST: Gross ID - U.V. light on the gross unfixed tissue will give a light green fluorescence for tetracyclines

FTD

(93) Measels pneumonia - some controversy

Histories for Wednesday Conference, 20 October 1965

(3)

MI-7645 - Aged cow slaughtered in poor condition. Spleen, liver and kidney enlarged as well as some of the lymph nodes.

5106 — The section is from an adult female gilera pig with ascites.

65-2542 - Cross section of spherical nodule removed from skin of 8-year-old Boxer.

FTD

1) Malignant lymphoma

95) Mesenchyoma - heart

96) ~~Sebaceous gland~~ } Ceruminous gland
adenoma } adenoma of the ear

Histories for Wednesday Slide Conference, 27 October 1965

77 428-65-23 - Six-year-old Beagle, surgical specimen.
Seroli cell carcinoma

93 FDA 32254 - Male Osborn-Mendel rat killed after being fed sodium arsenate

(400 PPM as elemental arsenic) mixed in its Purina chow diet for

Enlarged bile ducts

2 years.

97 TB-83 ----- Domestic cat, mesenteric node. Diarrhea present several weeks.

Metastatic carcinoma from gut.

3

Histories for Wednesday Slide Conference, 3 November 1965

100
101

297-64 - Three-year-old male chimpanzee. Primary cause of death was gut perforation with severe peritonitis resulting from Desophagostomum sp. infection.

102

1772 --- Canine with urinary problem.

103

P871-66 - Turkey, 18-weeks-old, from flock experiencing high morbidity and 50% mortality. Clinical Picture: Depression. Postmortem: Enlarged green liver, enlarged mottled spleen and dehydration.

104

FT. D.

100-101

Acanthocheilonema sp. nematode

pre-dilection for aponeurosis attaching
bile duct to liver and also to
vena cava region.

02

Renal infarct - etiol. undetermined

03

Leucostygonosis - parasites visible when blood
vessels of liver

(6)

Wednesday Conference, 17 November 1965

1178139 - "Pigeon".

105
106

1183989 - (2 slides) - Feline, male, 4-years-old. Profuse serous nasal discharge, sneezing, salivation, anorexia, and urinary incontinence. Died 16 days after onset of symptoms.

107

1173019 - On November 23rd., 193 feeder pigs were trucked to the local midwest stockyards. Slight coughing was observed in the group. On November 27, 123 gilts were sick with an influenza-like disease. The symptoms noted were coughing, anorexia, vomiting, shaking of the head, frequent getting up and down and convulsions. On November 18th., several were found dead and 20 others were sick.

All the pigs had been vaccinated against hog cholera with at least 2 different lots of modified virus vaccine.

The findings at necropsy of the dead pig were edema and congestion of the lungs, pleural and peritoneal effusion, epicardial petechiation, empty congested stomach, congestion of the intestine, liver, and spleen, and extreme congestion of the meningeal vessels. Bacteriologic examination was negative.

Capt. John Ferrell
Pathology Division
U. S. A. Medical Unit
Fort Detrick, Maryland

Dear Captain Ferrell:

Diagnosis for Wednesday conference, 17 November 1969:

104

1178129 - Ploaca. *Demodex microps* (globular stomach worm) in the
ventricles. Also located in lumen of proventriculus, and
in feces in glandular areas.

105, 106

1181909 - Felina. Feline pneumonitis in lung, with tortuosity of
of Peyer's patches of small intestine. This animal had been
treated with penicillin and chloroquine for an unexplained
period before death.

107

1178019 - Pig. Alzheimer's disease. The contributor showed lantern
slides of basophilic intranuclear inclusions in neurons from
from rat brain slides submitted for the conference.
Ref.: U. S. Livestock Sanitary Association, 1963, pp. 331.

Sincerely,

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RONALD L. PERRINI
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(7)

Histories for Wednesday Conference, 1 December 1965

105

750311 - Colony of mice used for drug sensitivity and leukemia studies. Dying in "unprecedented" numbers. Repeated culture attempts negative.

103

922937 - Eleven-year-old domestic female cat.

110
111

64P567 - A big-faced, 5-year-old, castrated male pony maintained on pasture and 4 quarts of grain per day was brought to CSU clinic 6 August 1964 in poor condition, listless, and anorectic. A single serum alkaline phosphatase determination performed on the 6th. gave a value in excess of 22 Bodansky units (precise value not obtained). Bone slide is mandible, the other slide is parathyroid.



138

Tyzzer's Disease etiol - *Bacillus piliformis* - very hard to grow these out! [hasn't been cultured yet]

139

"Old Cat Pancreas" containing leiomyometaplasts within smooth muscle cells at arterioles etc.
PAS - negative
ORO - st. +
Aid fast - +

140

Osteomalacia, Osteodystrophy Fibrosa
Alk. phosphatase levels not very indicative of disease here.

Historios for Wednesday Conference, 15 December 1965

⑧

115 65-1202F₂: Monkey exposed to experimental disease.

113 1184032: Dairy herd consisting of approximately 135 animals. Lesion was obtained at the Morovic Municipal Abbatoir from a non-TB-reactor.

114 1162907: Nine-month-old German shorthair. Emaciated and severely depressed.
Basic path lesion and etiologic diagnosis.

This will be the last conference for 1965. The first conference for 1966 will be on 5 January. I would like to remind you that past conference slides must be returned. Your cooperation would be appreciated in this matter.

Ronald L. Persing

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2.2 Experimental Pulmonary Coccidioidomycosis

113 Tubercloid skin lesions - granulomatous tubercloid dermatitis

114 Nephropathy - Primary Disease Entity



visceral wall glomerular endothelium
and monocytes inside blood vessel

Q. Nephropathy - dog's primary disease - severe blood transfusion - may have produced renal failure

Q. Path. lesion - Hyaline droplet degeneration - proteinaceous material (Hemoglobin) seen in kidney epithelial cells

MSHMM

9

Historical for Wednesday Conference, 12 January 1966

P-1386-66 ——— Young adult Pheasant showing respiratory distress.

Amos 65250 ——— Liver from an ovine which was dead on abortion at the 5th. month of pregnancy.

Ft.K. 1943 ——— Growth removed from the sheath of a claw of an old tom cat. It was connected by a very small attachment. Grossly, it was 1.5 cm. in diameter, round, devoid of hair, firm, and the cut surface was glistening white.

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171

115) Syngamus trachea - nematode (Gape worm)
causing squamous metaplasia of resp. epithelium
and granulomatous inflammatory response

116) Vibriosis - ovine vibriotic abortion

117) "Reactive fibroma" - granuloma
pyogenicum - etc - controversial
contributor's diagnosis submitted - indefinite

(10)

Wednesday Conference, 26 January 1966

Histories:

JHU 661 ----- Nine-year-old altered male cat. This animal had received several injections of I 131 between 1957-58 for experimental purposes. During the years 1958-60, he received typhoid-paratyphoid endotoxin several times and was used as a blood donor. His terminal illness began in August 1965 and appeared to be a chronic urinary problem with retention, obstruction and chronic cystitis. Catheterization was necessary. Serum urea nitrogen level was 80 mg% 2 weeks prior to euthanasia. Hematologic examination revealed nothing significant. Necropsy revealed a pale, firm neoplastic growth which diffusely involved the posterior half of the bladder wall and the prostate gland.

NZP 21340 — Spotted leopard kitten, 3-weeks-old. Died in acute abdominal pain.

1186014 ----- Anoa (ruminant from NZP). Multiple granulomatous lesions scattered through body.

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F.T.V.

(118) Malignant mastocytoma (poor diff) most likely it was Malign Lymphoma, R.E. ty

(119) Renal papillitis or pyelonephritis.
^{ETIOLOG/ UNDEF.}
~~ETIO~~, always G-nodes & nephro-
pyelitis

(120) Arterial & nephrosclerosis of Kidney
possible TB (avian?)

USAMU
①①

Histories for Wednesday Conference, 9 February 1966

(121) 1178471 ——— Mouse infected experimentally with one of a "family" of infectious agents which reportedly produces epidemic-like conditions when associated with stressing factors, or the blood parasite _____.

(12) 1179460 ——— Mature female green jay that died without apparent illness.

(12) 65S147R ——— Surgical specimen from a 2½-year-old spayed female German Shepherd. Treated with cortisone for period of time before surgery with diminishing effect.

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D
T
—

(121) mouse viral hepatitis; diffuse hepatitis infection. \bar{c} MHV₃ strain virus - Eperythrozoon coexists. Blood parasite often assoc \bar{c} outbreaks.

(122) iuocarcinosis, long filaments demo^{STRATED} by acid fast modif. > also Grama stain will show

(12) Pigmented Keratitis

2457777
Histories for Wednesday Conference 23 February 1966 (D)

DB#1 (AFIP 1051621) - Aged, emaciated horse.

125# 6355 ————— Tissue taken from a slaughter house steer showing
generalized lymphadenopathy. No information was available
on other organs.

26# 70 ————— Scab smear from 6-month-old Hereford.

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1. Visceral Larva Migrans - Liver

Some questions as to diagnosis
saw Strongyloides vulgaris - whether
these granulomata are a result or not?

2. Histoplasmosis

can possibly be

Leishmaniasis

3. Streptothricosis

Etiol: Dermatophilus congolense

1/1/11
N.W.H.

Histories for Wednesday Conference, 9 March 1966

USA MU
B

(127) 34,719 — Male Osborne-Mendel rat killed after being fed calamus oil (5000 ppm) mixed in its Purina chow diet for 10½ months.

(126) P-34-66 — Liver tissue from young adult female chickens. The affected chickens were listless, off condition, had a shrunken comb, and had diarrhea.

(129
130) 1723 — This dog died 60 hours after being subcutaneously inoculated with 100 mg. of a dried "substance". In the natural state the "substance" is liquid.

1. Pathology noted.
2. Nature of substance.

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(127) Transfer all sarcoma - FDA
R-E sarcoma - AFIP

(68) Viral hepatitis

127-130 Snake-venom toxicity
Hyaline PAS+ droplets

Histories for Wednesday Conference 13 March 1966

USAFA
14

1134037 ——— Canine, male, 2-months-old. History of no illness. The dog bit the owner and small boy, then died three days later.

JHU 749 ——— Twelve-year-old female Boston Terrier. Two surgical specimens from mammary glands and a biopsy from posterior thigh muscle close to vulva. No apparent bone involvement or site of origin was found, and the dog is reported to be normal at present, some two months after biopsy.

Diagnosis for biopsy (largest solid tissue) and possible source of same.

476-64 ——— Eight-year-old Boston Terrier died in convulsions 3 days post-surgery following correction of luxated patella.

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Histories for Wednesday Conference, 6 April 1966

15

P3230-66 — Bonus submitted by Poultry Inspection.

"There is a small light colored body in the ovary of this 8-week-old meat-type chicken". Can you identify it?

FDA34368 — Bonus submitted by FDA.

Incidental finding in a laboratory mouse found dead.

1095008 — Liver of an Indian monitor lizard taken at necropsy from National Zoological Park specimen. This tissue was transferred to absolute alcohol from formalin shortly after fixation had begun. Diagnosis of condition?

1191840 — Thirteen-year-old female dog. Lesion present on left shoulder for approximately 3 months.

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- 134 Normal left adrenal gland
Normal anatomical location in four
- 135 Parasitic cyst, probably due to
Hymenolepis microstoma FTD.
136. Visceral gut. Regalanthia stain
for topha crystals
- 137 Trichoeplitheliosis - hair matrix
type

Diagnosis

W. A. H. 26

16

HISTORIES FOR WEDNESDAY CONFERENCE
11 May 1966

- PI 3830-66: Small white spots in the liver of a mature female turkey.
- Ames 65252: Two-week old chick showing partial paralysis and incoordination. Approximately 8% of the chicks had similar signs although they appeared alert and would eat and drink.
- FTK 1943: Specimen submitted by caretaker from a male rhesus monkey in apparent good health and not used in breeding colony.
- Bonus: No label, Bovine.

11968#2

Ronald L. Persing
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3830

Neocardiosis

65-252

2. *Emphysematis*

TK-1443 (1801) 116

3. Urethral plug - normal

4 1196812 Bovine - ?

F. I. D.

17

HISTORIES FOR WEDNESDAY CONFERENCE
1 June 1966

HL 20-251: Liver section from adult Macaca mulatta monkey.

66-723 B66-6: 7-year-old male Terrier cryptorchid. Exhibited vomiting, diarrhea, and depression for 2-3 days with bloody feces, abdominal pain and systolic murmur.

Urine protein +++
Bilirubin +
Sp. G. 1.038
Sugar ++

After several days of non-specific treatment the vomiting continued. One week after the initial examination, the blood sugar was greater than 250 mg %, BUN greater than 75 mg %. Insulin treatment reduced the blood sugar to 90 mg % in 24 hours.

Euthanasia was performed rather than continuing treatment.

Necropsy revealed "abscesses in the region of the pancreas" and a pale liver.

1203106:

Incidental finding at necropsy of a dog. Breed, age, and sex were not available.

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- 187 Capillaritis hepatica
- 188 Diabetes mellitus
vacuolization of epithelium
(collecting tubules)
- 189 Carotid-body tumor

FFD

USAMU